

WHAT IS CLAIMED IS (US) :

1. A flexible substrate storage equipment comprising:

at least a pair of opposed members that constitute an outer frame of a storage equipment main body,

wherein said pair of opposed members are disposed so as to maintain a predetermined interval to wedge a plurality of flexible substrates in between to hold them in a shape of a curve.

2. The flexible substrate storage equipment as defined in claim 1, wherein:

said predetermined interval between said pair of opposed members in a state of holding said plurality of flexible substrates is shorter than a length of said plurality of substrates in a holding direction.

3. The flexible substrate storage equipment as defined in claim 1, wherein:

each of said pair of opposed members includes a holding member for holding said plurality of substrates in an alignment.

4. The flexible substrate storage equipment as set

forth in claim 2, wherein:

each of said pair of opposed members includes a holding member for holding said plurality of substrates in an alignment.

5. The flexible substrate storage equipment as set forth in claim 3, wherein:

said holding member holds said plurality of substrates in a state where said plurality of substrates do not form a right angle with respect to said pair of opposed members.

6. The flexible substrate storage equipment as set forth in claim 4, wherein:

said holding member holds said plurality of substrates in a state where said plurality of substrates do not form a right angle with respect to said pair of opposed members.

7. The flexible substrate storage equipment as set forth in claim 1, wherein:

said predetermined interval between said pair of opposed members can be increased when placing said plurality of substrates and taking them in and out said flexible substrate storage equipment.

8. The flexible substrate storage equipment as set forth in claim 7, wherein:

said holding member of at least one of said pair of opposed members includes a curved section for each of said plurality of substrates.

9. The flexible substrate storage equipment as set forth in claim 1, wherein:

said storage equipment main body includes a base plate at an depth end of said pair of opposed members in a direction of inserting said plurality of substrates; and

an insertion groove is formed in said base plate for guiding said plurality of substrates along a curve.

10. The flexible substrate storage equipment as set forth in claim 2, wherein:

said storage equipment main body includes a base plate at an depth end of said pair of opposed members in a direction of inserting said plurality of substrates; and

an insertion groove is formed in said base plate for guiding said plurality of substrates along a curve.

11. The flexible substrate storage equipment as set forth in claim 1, wherein:

said storage equipment main body includes a holding member provided at each of said pair of opposed members, for holding said plurality of substrates in alignment, and

an insertion groove for guiding said plurality of substrates along a curve is formed in a base plate provided at a back end in a direction of inserting said plurality of substrates.

12. The flexible substrate storage equipment as set forth in claim 2, wherein:

said storage equipment main body includes a holding member provided at each of said pair of opposed members, for holding said plurality of substrates in alignment, and

an insertion groove for guiding said plurality of substrates along a curve is formed in a base plate provided at a back end in a direction of inserting said plurality of substrates.

13. The flexible substrate storage equipment as set forth in claim 1, wherein:

said storage equipment main body includes a holding member provided with a substrate bending section on at least one of said pair of opposed members, and an insertion groove is formed in said base plate for guiding said plurality of substrates along a curve; and

an insertion groove for guiding said plurality of substrates along a curve is formed in a base plate provided at a back end in a direction of inserting said plurality of substrates.

14. The flexible substrate storage equipment as set forth in claim 2, wherein:

said storage equipment main body includes a holding member provided with a substrate bending section on at least one of said pair of opposed members, and an insertion groove is formed in said base plate for guiding said plurality of substrates along a curve; and

an insertion groove for guiding said plurality of substrates along a curve is formed in a base plate provided at a back end in a direction of inserting said plurality of substrates.

15. The flexible substrate storage equipment as set forth in claim 1, wherein:

said storage equipment main body includes a base plate at an depth end of said pair of opposed members in a direction of inserting said plurality of substrates; and

a plurality of protrusions are formed on said base plate for guiding said plurality of substrates along a curve.

16. The flexible substrate storage equipment as set forth in claim 2, wherein:

said storage equipment main body includes a base plate at an depth end of said pair of opposed members in a direction of inserting said plurality of substrates; and

a plurality of protrusions are formed in said base plate for guiding said plurality of substrates along a curve.

17. The flexible substrate storage equipment as set forth in claim 1, wherein:

said storage equipment main body includes a holding member provided at each of said pair of opposed members, for holding said plurality of substrates in alignment, and

a plurality of protrusions for guiding said plurality of substrates along a curve are formed in a base plate provided at a back end in direction of inserting said plurality of substrates.

18. The flexible substrate storage equipment as set forth in claim 2, wherein:

said storage equipment main body includes a holding member provided at each of said pair of opposed members, for holding said plurality of substrates in alignment, and

a plurality of protrusions for guiding said plurality of substrates along a curve are formed in a base plate provided at a back end in direction of inserting said plurality of substrates.

19. The flexible substrate storage equipment as set forth in claim 1, wherein:

said storage equipment main body includes a holding member provided with a substrate bending section on at least one of said pair of opposed members, and an insertion groove is formed in said base plate for guiding said plurality of substrates along a curve; and

a plurality of protrusions for guiding said plurality of substrates along a curve are formed in a base plate provided at a back end in direction of inserting said plurality of substrates.

20. The flexible substrate storage equipment as set forth in claim 2, wherein:

said storage equipment main body includes a holding member provided with a substrate bending section on at least one of said pair of opposed members, and an insertion groove is formed in said base plate for guiding said plurality of substrates along a curve; and

a plurality of protrusions for guiding said plurality of

substrates along a curve are formed in a base plate provided at a back end in direction of inserting said plurality of substrates.

21. The flexible substrate storage equipment as set forth in claim 1, wherein:

said plurality of substrates are stored in a stand position.

22. The flexible substrate storage equipment as set forth in claim 2, wherein:

said plurality of substrates are stored in a stand position.

23. The flexible substrate storage equipment as set forth in claim 1, wherein:

said plurality of substrates are flat plates.

24. The flexible substrate storage equipment as set forth in claim 2, wherein:

said plurality of substrates are flat plates.

25. A storing method of flexible substrates,

wherein a plurality of flexible substrates are wedged by a pair of opposed members which constitute an outer



frame of a storage equipment main body.

26. The storing method of flexible substrates as set forth in claim 25,

said predetermined interval between said pair of opposed members in a state of holding said plurality of flexible substrates is shorter than a length of said plurality of substrates in a holding direction.